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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/652,323	08/29/2003	Deirdre H. Elqaq	30320/P15128	1631
4743	7590	10/27/2006		
MARSHALL, GERSTEIN & BORUN LLP 233 S. WACKER DRIVE, SUITE 6300 SEARS TOWER CHICAGO, IL 60606			EXAMINER ANGEBRANNDT, MARTIN J	
			ART UNIT 1756	PAPER NUMBER

DATE MAILED: 10/27/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Advisory Action Before the Filing of an Appeal Brief	Application No.	Applicant(s)	
	10/652,323	ELQAQ ET AL.	
	Examiner	Art Unit	
	Martin J. Angebranndt	1756	

--The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

THE REPLY FILED 11 October 2006 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE.

1. The reply was filed after a final rejection, but prior to or on the same day as filing a Notice of Appeal. To avoid abandonment of this application, applicant must timely file one of the following replies: (1) an amendment, affidavit, or other evidence, which places the application in condition for allowance; (2) a Notice of Appeal (with appeal fee) in compliance with 37 CFR 41.31; or (3) a Request for Continued Examination (RCE) in compliance with 37 CFR 1.114. The reply must be filed within one of the following time periods:
- The period for reply expires 3 months from the mailing date of the final rejection.
 - The period for reply expires on: (1) the mailing date of this Advisory Action, or (2) the date set forth in the final rejection, whichever is later. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection.
- Examiner Note: If box 1 is checked, check either box (a) or (b). ONLY CHECK BOX (b) WHEN THE FIRST REPLY WAS FILED WITHIN TWO MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f).

Extensions of time may be obtained under 37 CFR 1.136(a). The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee have been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened statutory period for reply originally set in the final Office action; or (2) as set forth in (b) above, if checked. Any reply received by the Office later than three months after the mailing date of the final rejection, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

NOTICE OF APPEAL

2. The Notice of Appeal was filed on _____. A brief in compliance with 37 CFR 41.37 must be filed within two months of the date of filing the Notice of Appeal (37 CFR 41.37(a)), or any extension thereof (37 CFR 41.37(e)), to avoid dismissal of the appeal. Since a Notice of Appeal has been filed, any reply must be filed within the time period set forth in 37 CFR 41.37(a).

AMENDMENTS

3. The proposed amendment(s) filed after a final rejection, but prior to the date of filing a brief, will not be entered because
- They raise new issues that would require further consideration and/or search (see NOTE below);
 - They raise the issue of new matter (see NOTE below);
 - They are not deemed to place the application in better form for appeal by materially reducing or simplifying the issues for appeal; and/or
 - They present additional claims without canceling a corresponding number of finally rejected claims.

NOTE: _____. (See 37 CFR 1.116 and 41.33(a)).

4. The amendments are not in compliance with 37 CFR 1.121. See attached Notice of Non-Compliant Amendment (PTOL-324).
5. Applicant's reply has overcome the following rejection(s): _____.
6. Newly proposed or amended claim(s) _____ would be allowable if submitted in a separate, timely filed amendment canceling the non-allowable claim(s).
7. For purposes of appeal, the proposed amendment(s): a) will not be entered, or b) will be entered and an explanation of how the new or amended claims would be rejected is provided below or appended.

The status of the claim(s) is (or will be) as follows:

Claim(s) allowed: none.

Claim(s) objected to: none.

Claim(s) rejected: 1-18.

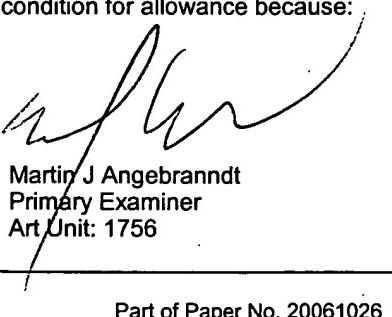
Claim(s) withdrawn from consideration: _____.

AFFIDAVIT OR OTHER EVIDENCE

8. The affidavit or other evidence filed after a final action, but before or on the date of filing a Notice of Appeal will not be entered because applicant failed to provide a showing of good and sufficient reasons why the affidavit or other evidence is necessary and was not earlier presented. See 37 CFR 1.116(e).
9. The affidavit or other evidence filed after the date of filing a Notice of Appeal, but prior to the date of filing a brief, will not be entered because the affidavit or other evidence failed to overcome all rejections under appeal and/or appellant fails to provide a showing a good and sufficient reasons why it is necessary and was not earlier presented. See 37 CFR 41.33(d)(1).
10. The affidavit or other evidence is entered. An explanation of the status of the claims after entry is below or attached.

REQUEST FOR RECONSIDERATION/OTHER

11. The request for reconsideration has been considered but does NOT place the application in condition for allowance because:
See Continuation Sheet.
12. Note the attached Information Disclosure Statement(s). (PTO/SB/08) Paper No(s). _____
13. Other: _____.



Martin J. Angebranndt
Primary Examiner
Art Unit: 1756

Continuation of 11. does NOT place the application in condition for allowance because: The applicant on page 3/10 states that the rejection is driven by hindsight. The examiner holds that the disclosure of disclosure of equivalence in the use of a mask and the actino of a phtooresist as a masking element is clearly established in the prior art as evidenced in the references applied (Kalbitzer et al. and Kusonoki et al.), who use the maskign elements to block ion beams, so the disclosure of equivalence is present and a reasonable expectation of success established. Further, the teaching away from the use of focussed ion beams is found in Kusoni et al. which casts that option in unfavorable light. The references teach ion beams of atoms, causing crystalline Silicon to an amorphous phase, so the fact situation in Graselli does not match well. The language of more than "about 30" in Kalbitzer et al. suggests a lack of criticality in the AU range to the reader and clearly, the ability of Si ion bombardment to cause the amorphozation is clear for the record. The applicant argues with respect to Strain and Kalnitsky, that the combination wouldnot be viewed as obvious by one of ordinary skill in the art, the examiner disagrees, noting that boththeh references are forming waveguiding regions where the ion implantation causes an increased refractive index to form the waveguiding layer. Botht eh use of Si, B, P and Ge are evidenced by the references to failcitate this providing a reasonable expecation of success. Further, when Kase et al., is read, the further doping described in claims 11 and 18 of the instant application, the use of the Si to preamorphize the layer is rendered obvious to one of ordinary skill in the art as the benefit of a more defined implantation profile is formed. The secondary references Koblinger et al and Coronel are applied to show alternative modes for etching, to that described by Strain. The functional equivalence of the ion implantation established by the effect (amorphization of the silicon) for the Xe, Ge, B, P or Si. The applicant is invited to establish in a declaration unexpected results for the full scope of the process. This may be difficult for the case where both Si and at least one of B or P are implanted. The rejections stand.

WA
16/2/06